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Appl. No. : 10/771,845
Filed : February 4, 2004

AMENDMENTS TO THE CLAIMS

Please cancel Claims 17-47 without prejudice. Applicant reserves the right to pursue these claims at a later date.

1. (Original) A method of closing a patent foramen ovale having a septum primum and a septum secundum, comprising:

providing a closure device having a proximal end, a distal end, a proximal segment, an intermediate segment and a distal segment, the proximal and intermediate segments defining a first clip-shaped portion and the intermediate and distal segments defining a second clip-shaped portion; and

deploying the closure device within the patent foramen ovale such that the second clip-shaped portion is positioned over a tip of the septum primum and the first clip-shaped portion is positioned over a tip of the septum secundum, with the intermediate portion lying in a channel between the septum primum and the septum secundum;

wherein the closure device when deployed exerts a force to draw the septum primum and septum secundum together.

2. (Original) The method of Claim 1, wherein the intermediate and distal segments of the closure device when deployed are positioned along surfaces of the septum primum and the proximal and intermediate segments of the closure device when deployed are positioned along surfaces of the septum secundum.

3. (Original) The method of Claim 1, wherein the first clip-shaped portion and second clip-shaped portions are integrally formed.

4. (Original) The method of Claim 1, wherein the first clip-shaped portion and second clip-shaped portions are made of wire.

5. (Original) The method of Claim 1, wherein the first clip-shaped portion and second clip-shaped portions when the device is deployed forms generally an S-shape.

6. (Original) The method of Claim 1, wherein each clip-shaped portion is formed from two adjacent loops connected by a connecting portion.

7. (Original) The method of Claim 1, wherein deploying the closure device comprises releasing the closure device from a detachment element provided on the device.

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8. (Original) The method of Claim 1, further comprising locking the position of the device after deployment.

9. (Original) The method of Claim 1, wherein the device self-expands to its deployment configuration.

10. (Original) A method of closing a patent foramen ovale having a septum primum and a septum secundum, comprising:

providing a closure device having a proximal end and a distal end and having a generally elongate configuration and a clip configuration, wherein when the device is in its elongate configuration the proximal and distal ends are pulled away from each other and when the device is in its clip configuration the device has generally an S-shape,

releasably attaching the device relative to a delivery device;

delivering the closure device to the patent foramen ovale with the delivery device, the closure device being held relative to the delivery device in its elongate configuration; and

deploying the closure device in the patent foramen ovale, wherein the device when deployed includes a first clip-shaped portion positioned around the septum secundum and a second clip-shaped portion positioned around the septum primum.

11. (Original) The method of Claim 10, wherein the closure device includes a detachment element at its proximal end, and the device is delivered using a core wire that releasably engages the detachment element.

12. (Original) The method of Claim 10, wherein the device is held in its elongate configuration distal to a deployment catheter.

13. (Original) The method of Claim 10, wherein the device is delivered by positioning the catheter between the septum primum and septum secundum.

14. (Original) The method of Claim 10, further comprising locking the device in its clip configuration after deployment.

15. (Original) The method of Claim 10, wherein the device self-expands to its deployment configuration.

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16. (Original) The method of Claim 10, wherein the device includes a plurality of eyelets, and the device is releasably attached to a delivery device by engaging a core through at least some of the eyelets.

17-47. (Canceled)

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